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Jameco Part Number
127538

3.2 INSTRUMENT SPECIFICATIONS

Electrical Specifications

(See tables 2)

NOTE: **(1) The test leads should be as short as possible to minimize the measurement error.**

(2) For best accuracy, zero adjustment should be performed appropriately before testing.

Table 2.

CAPACITANCE

Range	*Accuracy	Resolution	Test Condition
200pf	1% ± 2	0.1pf	Parallel Mode 1KHz, 0.5Vrms
2nf		1pf	
20nf		10pf	
200nf		100pf	
2μf		1000pf	
20μf		0.01μf	Series Mode 120Hz, 1mArms
200μf		0.1μf	Series Mode 120Hz, 10mArms
2mf	2% ± 10	1μf	
20mf		10μf	

*Accuracy is ± (% of reading + number of digits) When D ≤ 0.1

DISIPATION FACTOR

Range		Accuracy		
0 ~ 1.999	200pf	2nf ≤ Cx ≤ 2μf	2μf < Cx ≤ 2mf	20mf
	N.S.	$1\% + 10 + \frac{2000}{Cx}$	$2\% + 20 + \frac{2000}{Cx}$	N.S.

Accuracy is ± (% of reading + number of digits).

Cx is capacitance readout in counts.

Accuracy is applied when C is from 20 to 100% of full scale range in series mode measurements.

Parallel Mode $Dc = \frac{1}{2\pi f C_P R_P}$ — C_P / R_P

Series Mode $Dc = 2\pi fCsRs$

RESISTANCE

Range	Accuracy	Resolution	Test Condition	
2Ω	1% ± 5	1mΩ	Series Mode 1KHz	10mArms
20Ω	1% ± 2	10mΩ		10mArms
200Ω		100mΩ		1mArms
2KΩ		1Ω		0.1mArms
20KΩ		10Ω		10μArms
200KΩ		100Ω		1μArms
2MΩ	2% ± 2	1KΩ	Parallel Mode 1KHz, 0.5Vrms	
20MΩ		10KΩ		

Accuracy is ± (% of reading + number of digits) and is applied from 10 to 100% of full scale range in parallel mode measurements.
In series mode measurements, the compliance voltage (voltage drop on the device under test) should be less than 0.2 Vrms.

INDUCTANCE

Range	Accuracy	Resolution	Test Condition	
200μH	2% ± 2	0.1μH	Series Mode	10mArms, 1KHz
2mH	1% ± 2	1μH		10mArms, 1KHz
20mH		10μH		1mArms, 1KHz
200mH		100μH		0.1mArms,1KHz
2H	2% ± 2	1mH	Parallel Mode 120Hz, 0.5Vrms	
20H		10mH		
200H	3% ± 2	100mH		

Accuracy is ± (% of reading + number of digits) When D ≤ 0.1.
The accuracy is applied from 10 to 100% of full scale range in parallel mode measurements.

DISSIPATION FACTOR

Range	Accuracy	
0 ~ 1.999	Lx < 200mH	200mH < Lx < 200H
	$1\% + 10 + \frac{2000}{Lx}$	$2\% + 20 + \frac{2000}{Lx}$

Accuracy is ± (% of reading + number of digits).
Lx is inductance readout in counts.
Accuracy is applied when L is from 20 to 100% of full scale range in parallel mode measurements.

Parallel Mode $D_L = 2\pi f \frac{Lp}{Rp}$

Series Mode $D_L = \frac{Rs}{2\pi fLs}$

NOTE : ALL THE ACCURACY IS GUARANTEED AT TEMPERATURE OF 15℃ TO 28℃, RELATIVE HUMIDITY TO 80% AND HALF YEAR CALIBRATION CYCLE.

3.3 GENERIAL SPECIFICATIONS

Power	Single 9V 006P Battery
Display	0.5″ digital height, 3 1/2 digits liquid crystal display with "LOBAT" and decimal annunciates
Low Battery Warning	Display will show "LOBAT" in the last 5% of Battery life
Current Consumption	17.3mA
Temperature	0℃ ~ 40℃, Operating -20℃ ~ 70℃, Storage
Dimensions	177×88×40mm
Weight	400 gram
Standard Accessories	Test Clips (red & black) 1 pair Operation Manual 1 piece
Optional Accessories	Measurement clip TL-06 for SMD type component